

W. Tutschke

Solution of

# **Initial Value Problems** In Classes of **Generalized Analytic Functions**



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# Solution Of Initial Value Problems In Classes Of Generalized Analytic Functions

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## **Solution Of Initial Value Problems In Classes Of Generalized Analytic Functions:**

**Solution of Initial Value Problems in Classes of Generalized Analytic Functions** Wolfgang Tutschke, 2013-03-09

The purpose of the present book is to solve initial value problems in classes of generalized analytic functions as well as to explain the functional analytic background material in detail. From the point of view of the theory of partial differential equations the book is intended to generalize the classical Cauchy-Kovalevskaya theorem whereas the functional analytic background connected with the method of successive approximations and the contraction mapping principle leads to the concept of so called scales of Banach spaces. The method of successive approximations allows to solve the initial value problem  $du/dt = f(t, u)$ ,  $u(0) = u_0$  where  $u(t)$  is real or vector valued. It is well known that this method is also applicable if the function  $u$  belongs to a Banach space. A completely new situation arises if the right hand side  $f(t, u)$  of the differential equation (0.1) depends on a certain derivative  $Du$  of the sought function, i.e. the differential equation (0.1) is replaced by the more general differential equation  $du/dt = f(t, u, Du)$ . There are differential equations of type (0.3) with smooth right hand sides not possessing any solution to say nothing about the solvability of the initial value problem (0.3). Assume for instance that the unknown function denoted by  $w$  is complex valued and depends not only on the real variable  $t$  that can be interpreted as time but also on spacelike variables  $x$  and  $y$ . Then the differential equation (0.3) becomes

*Solution of Initial Value Problems in Classes of Generalized Analytic Functions* Wolfgang Tutschke, 1989

## **Complex Methods for Partial Differential Equations**

Heinrich Begehr, A. Okay Celebi, W. Tutschke, 2013-12-01 This volume is a collection of manuscripts mainly originating from talks and lectures given at the Workshop on Recent Trends in Complex Methods for Partial Differential Equations held from July 6 to 10 1998 at the Middle East Technical University in Ankara Turkey sponsored by The Scientific and Technical Research Council of Turkey and the Middle East Technical University. This workshop is a continuation of two workshops from 1988 and 1993 at the International Centre for Theoretical Physics in Trieste Italy entitled Functional analytic Methods in Complex Analysis and Applications to Partial Differential Equations. Since classical complex analysis of one and several variables has a long tradition it is of high level. But most of its basic problems are solved nowadays so that within the last few decades it has lost more and more attention. The area of complex and functional analytic methods in partial differential equations however is still a growing and flourishing field in particular as these methods are not only applied within the framework of holomorphic functions but are also combined with properties of generalized analytic functions. This can be seen by the many books which recently were published in this field and also by the proceedings in this ISAAC series and the ISAAC congresses and workshops.

*Analytic Functions* Blazejewski 1982 J. Lawrynowicz, 2006-11-14

Functional Analytic Methods In Complex Analysis And Applications To Partial Differential Equations A. S. A. Mshimba, Wolfgang Tutschke, 1995-10-17 These proceedings concentrate on recent results in the following fields of complex analysis: complex methods for solving boundary value problems with piecewise smooth boundary data; complex methods for linear and

nonlinear differential equations and systems of second order and applications of scales of Banach spaces to initial value problems Some problems in higher dimensions such as the unification of global and local existence theorems for holomorphic functions and an elementary approach to Clifford analysis are also discussed Particular emphasis is placed on Symbolic Computation in Complex Analysis and on the new approaches to teach mathematical analysis based on interactions between complex analysis and partial differential equations

**New Trends in Analysis and Interdisciplinary Applications** Pei Dang, Min Ku, Tao Qian, Luigi G. Rodino, 2017-04-18 This book presents a collection of papers from the 10th ISAAC Congress 2015 held in Macau China The papers prepared by respected international experts address recent results in Mathematics with a special focus on Analysis By structuring the content according to the various mathematical topics the volume offers specialists and non specialists alike an excellent source of information on the state of the art in Mathematical Analysis and its interdisciplinary applications

*Complex Analytic Methods for Partial Differential Equations* Heinrich G. W. Begehr, 1994 This is an introductory text for beginners who have a basic knowledge of complex analysis functional analysis and partial differential equations Riemann and Riemann Hilbert boundary value problems are discussed for analytic functions for inhomogeneous Cauchy Riemann systems as well as for generalized Beltrami systems Related problems such as the Poincaré problem pseudoparabolic systems and complex elliptic second order equations are also considered Estimates for solutions to linear equations existence and uniqueness results are thus available for related nonlinear problems the method is explained by constructing entire solutions to nonlinear Beltrami equations Often problems are discussed just for the unit disc but more general domains even of multiply connectivity are involved

Finite or Infinite Dimensional Complex Analysis and Applications Le Hung Son, Wolfgang Tutschke, Chung-Chun Yang, 2013-12-01 There is almost no field in Mathematics which does not use Mathematical Analysis Computer methods in Applied Mathematics too are often based on statements and procedures of Mathematical Analysis An important part of Mathematical Analysis is Complex Analysis because it has many applications in various branches of Mathematics Since the field of Complex Analysis and its applications is a focal point in the Vietnamese research programme the Hanoi University of Technology organized an International Conference on Finite or Infinite Dimensional Complex Analysis and Applications which took place in Hanoi from August 8-12 2001 This conference was the 9th one in a series of conferences which take place alternately in China Japan Korea and Vietnam each year The first one took place at Pusan University in Korea in 1993 The preceding 8 conference was held in Shandong in China in August 2000 The 9th conference of the series was the first one which took place in the above mentioned series of conferences in Vietnam Present trends in Complex Analysis reflected in the present volume are mainly concentrated in the following four research directions 1 Value distribution theory including meromorphic functions meromorphic mappings as well as  $p$ -adic functions over fields of finite or zero characteristic and its applications 2 Holomorphic functions in several finitely or infinitely many complex variables 3 Clifford Analysis i.e. complex methods in higher dimensional real Euclidean spaces 4 Generalized analytic

functions     **Hypercomplex Analysis** Irene Sabadini, Michael Shapiro, Franciscus Sommen, 2009-04-21 Contains selected papers from the ISAAC conference 2007 and invited contributions This book covers various topics that represent the main streams of research in hypercomplex analysis as well as the expository articles It is suitable for researchers and postgraduate students in various areas of mathematical analysis     **Functional-analytic and Complex Methods, Their Interactions, and Applications to Partial Differential Equations** Helmut Florian, 2001 Functional analysis is not only a tool for unifying mathematical analysis but it also provides the background for today's rapid development of the theory of partial differential equations Using concepts of functional analysis the field of complex analysis has developed methods such as the theory of generalized analytic functions for solving very general classes of partial differential equations This book is aimed at promoting further interactions of functional analysis partial differential equations and complex analysis including its generalizations such as Clifford analysis New interesting problems in the field of partial differential equations concern for instance the Dirichlet problem for hyperbolic equations Applications to mathematical physics address mainly Maxwell's equations crystal optics dynamical problems for cusped bars and conservation laws Sample Chapter's Hyperbolic Equations Waves and the Singularity Theory 858 KB Contents Boundary Value Problems and Initial Value Problems for Partial Differential Equations Applications of Functional Analytic and Complex Methods to Mathematical Physics Partial Complex Differential Equations in the Plane Complex Methods in Higher Dimensions Readership Researchers lecturers and graduate students in the fields of analysis differential equations applied mathematics and mathematical physics     *Solvability Theory of Boundary Value Problems and Singular Integral Equations with Shift* Georgii S. Litvinchuk, 2012-12-06 The first formulations of linear boundary value problems for analytic functions were due to Riemann 1857 In particular such problems exhibit as boundary conditions relations among values of the unknown analytic functions which have to be evaluated at different points of the boundary Singular integral equations with a shift are connected with such boundary value problems in a natural way Subsequent to Riemann's work D Hilbert 1905 C Haseman 1907 and T Carleman 1932 also considered problems of this type About 50 years ago Soviet mathematicians began a systematic study of these topics The first works were carried out in Tbilisi by D Kveselava 1946 1948 Afterwards this theory developed further in Tbilisi as well as in other Soviet scientific centers Rostov on Don Ka zan Minsk Odessa Kishinev Dushanbe Novosibirsk Baku and others Beginning in the 1960s some works on this subject appeared systematically in other countries e g China Poland Germany Vietnam and Korea In the last decade the geography of investigations on singular integral operators with shift expanded significantly to include such countries as the USA Portugal and Mexico It is no longer easy to enumerate the names of the all mathematicians who made contributions to this theory Beginning in 1957 the author also took part in these developments Up to the present more than 600 publications on these topics have appeared     Partial Differential Equations in Clifford Analysis Elena Obolashvili, 1999-01-06 Clifford analysis represents one of the most remarkable fields of modern mathematics

With the recent finding that almost all classical linear partial differential equations of mathematical physics can be set in the context of Clifford analysis and that they can be obtained without applying any physical laws it appears that Clifford analysis itself can suggest new equations or new generalizations of classical equations that may have some physical content Partial Differential Equations in Clifford Analysis considers in a multidimensional space elliptic hyperbolic and parabolic operators related to Helmholtz Klein Gordon Maxwell Dirac and heat equations The author addresses two kinds of parabolic operators both related to the second order parabolic equations whose principal parts are the Laplacian and d Alembertian an elliptic type parabolic operator and a hyperbolic type parabolic operator She obtains explicit integral representations of solutions to various boundary and initial value problems and their properties and solves some two dimensional and non local problems Written for the specialist but accessible to non specialists as well Partial Differential Equations in Clifford Analysis presents new results reformulations refinements and extensions of familiar material in a manner that allows the reader to feel and touch every formula and problem Mathematicians and physicists interested in boundary and initial value problems partial differential equations and Clifford analysis will find this monograph a refreshing and insightful study that helps fill a void in the literature and in our knowledge *Functional-analytic And Complex Methods, Their Interactions, And Applications To Partial Differential Equations - Proceedings Of The International Graz Workshop* Helmut Florian, Norbert Ortner, Franz Josef Schnitzer, Wolfgang Tutschke, 2001-11-12 Functional analysis is not only a tool for unifying mathematical analysis but it also provides the background for today's rapid development of the theory of partial differential equations Using concepts of functional analysis the field of complex analysis has developed methods such as the theory of generalized analytic functions for solving very general classes of partial differential equations This book is aimed at promoting further interactions of functional analysis partial differential equations and complex analysis including its generalizations such as Clifford analysis New interesting problems in the field of partial differential equations concern for instance the Dirichlet problem for hyperbolic equations Applications to mathematical physics address mainly Maxwell's equations crystal optics dynamical problems for cusped bars and conservation laws remove a remove [Seminar on Deformations](#) Julian Lawryniewicz, 2006-11-14 [Solution of Continuous Nonlinear PDEs through Order Completion](#) M.B. Oberguggenberger, E.E. Rosinger, 1994-07-14 This work inaugurates a new and general solution method for arbitrary continuous nonlinear PDEs The solution method is based on Dedekind order completion of usual spaces of smooth functions defined on domains in Euclidean spaces However the nonlinear PDEs dealt with need not satisfy any kind of monotonicity properties Moreover the solution method is completely type independent In other words it does not assume anything about the nonlinear PDEs except for the continuity of their left hand term which includes the unknown function Furthermore the right hand term of such nonlinear PDEs can in fact be given any discontinuous and measurable function **Methods for Partial Differential Equations** Marcelo R. Ebert, Michael Reissig, 2018-02-23 This book provides an overview of different topics related to the theory of

partial differential equations Selected exercises are included at the end of each chapter to prepare readers for the research project for beginners proposed at the end of the book It is a valuable resource for advanced graduates and undergraduate students who are interested in specializing in this area The book is organized in five parts In Part 1 the authors review the basics and the mathematical prerequisites presenting two of the most fundamental results in the theory of partial differential equations the Cauchy Kovalevskaja theorem and Holmgren s uniqueness theorem in its classical and abstract form It also introduces the method of characteristics in detail and applies this method to the study of Burger s equation Part 2 focuses on qualitative properties of solutions to basic partial differential equations explaining the usual properties of solutions to elliptic parabolic and hyperbolic equations for the archetypes Laplace equation heat equation and wave equation as well as the different features of each theory It also discusses the notion of energy of solutions a highly effective tool for the treatment of non stationary or evolution models and shows how to define energies for different models Part 3 demonstrates how phase space analysis and interpolation techniques are used to prove decay estimates for solutions on and away from the conjugate line It also examines how terms of lower order mass or dissipation or additional regularity of the data may influence expected results Part 4 addresses semilinear models with power type non linearity of source and absorbing type in order to determine critical exponents two well known critical exponents the Fujita exponent and the Strauss exponent come into play Depending on concrete models these critical exponents divide the range of admissible powers in classes which make it possible to prove quite different qualitative properties of solutions for example the stability of the zero solution or blow up behavior of local in time solutions The last part features selected research projects and general background material

Higher Order Partial Differential Equations in Clifford Analysis Elena Obolashvili, 2012-12-06 The most important thing is to write equations in a beautiful form and their success in applications is ensured Paul Dirac The uniqueness and existence theorems for the solutions of boundary and initial value problems for systems of high order partial differential equations PDE are sufficiently well known In this book the problems considered are those whose solutions can be represented in quadratures i e in an effective form Such problems have remarkable applications in mathematical physics the mechanics of deformable bodies electro magnetism relativistic quantum mechanics and some of their natural generalizations Almost all such problems can be set in the context of Clifford analysis Moreover they can be obtained without applying any physical laws a circumstance that gives rise to the idea that Clifford analysis itself can suggest generalizations of classical equations or new equations altogether that may have some physical content For that reason Clifford analysis represents one of the most remarkable fields in modern mathematics as well as in modern physics

Analysis, Applications, and Computations Uwe Kähler, Michael Reissig, Irene Sabadini, Jasson Vindas, 2023-10-30 This volume contains the contributions of the participants of the 13th International ISAAC Congress 2021 held in Ghent Belgium The papers written by respected international experts address recent results in mathematics with a special focus on analysis The volume provides to both specialists and non specialists an

excellent source of information on current research in mathematical analysis and its various interdisciplinary applications

**Clifford Analysis and Related Topics** Paula Cerejeiras, Craig A. Nolder, John Ryan, Carmen Judith Vanegas Espinoza, 2018-09-07 This book intended to commemorate the work of Paul Dirac highlights new developments in the main directions of Clifford analysis Just as complex analysis is based on the algebra of the complex numbers Clifford analysis is based on the geometric Clifford algebras Many methods and theorems from complex analysis generalize to higher dimensions in various ways However many new features emerge in the process and much of this work is still in its infancy Some of the leading mathematicians working in this field have contributed to this book in conjunction with Clifford Analysis and Related Topics a conference in honor of Paul A M Dirac which was held at Florida State University Tallahassee on December 15 17 2014 The content reflects talks given at the conference as well as contributions from mathematicians who were invited but were unable to attend Hence much of the mathematics presented here is not only highly topical but also cannot be found elsewhere in print Given its scope the book will be of interest to mathematicians and physicists working in these areas as well as students seeking to catch up on the latest developments

**Abstract And Applied Analysis - Proceedings Of The International Conference** Nguyen Minh Chuong, Louis Nirenberg, Wolfgang Tutschke, 2004-06-01 This volume takes up various topics in Mathematical Analysis including boundary and initial value problems for Partial Differential Equations and Functional Analytic methods Topics include linear elliptic systems for composite material the coefficients may jump from domain to domain Stochastic Analysis many applied problems involve evolution equations with random terms leading to the use of stochastic analysis The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences



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